

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented): A program reproducing method of reproducing an existing program, which has been created by a method other than a LYEE development method, as a new program having a structure in accordance with the LYEE development method while maintaining functions of said existing program, comprising steps of:

extracting a word from said existing program;

identifying a definitive to which the word is related;

assigning the extracted word to at least one of a W04 pallet relating to output processing, a W02 pallet relating to input processing and W03 pallet relating to data generation processing pallets depending on the definitive; and

converting each statement of said existing program to at least one program component of a plurality of program components having a structure in compliance with the LYEE development method in at least one of said W04, W02, and W03 pallets to which words contained in the statements have been assigned.

Claim 2 (Previously Presented): The program reproducing method according to claim 1, wherein said converting converts a statement of said existing program for generating data to be stored in a field represented by a word to a program component for data generation.

Claim 3 (Previously Presented): The program reproducing method according to claim 1, further comprising:

ascertaining a relationship between at least two pallets when at least two words used in a statement of said existing program are respectively assigned to said at least two pallets;

determining that the relationship does not satisfy a predetermined sequence;

decomposing the statement into a plurality of statements;  
incorporating a new word in each statement obtained by the decomposing; and  
assigning new words to at least one of said at least two pallets configured to satisfy  
the predetermined sequence.

Claim 4 (Previously Presented): The program reproducing method according to claim  
1, wherein an extracted word is at least one of a self word and given word.

Claim 5 (Previously Presented): The program reproducing method according to claim  
1, further comprising:

adopting a statement configured to execute physical input/output processing with  
regard to a definitive from said existing program as part of a program component configured  
to control said pallets.

Claim 6 (Previously Presented): The program reproducing method according to claim  
1, wherein said assigning the extracted word to at least one of said pallets comprises:

assigning an extracted word related to a definitive used in input processing to at least  
the W02 pallet; and

assigning an extracted word related to a definitive used in output processing to at least  
the W04 pallet.

Claim 7 (Previously Presented): The program reproducing method according to claim  
6 further comprising:

providing a set consisting of a W04 pallet, W02 pallet and W03 pallet according to  
the at least one definitive and corresponding word used in said existing program.

Claim 8 (Previously Presented): The program reproducing method according to claim 6 further comprising:

providing a set consisting of a W04 pallet, W02 pallet and W03 pallet for a word used in said existing program that is not related to a definitive.

Claim 9 (Previously Presented): The program reproducing method according to claim 6 further comprising:

providing a set consisting of a W04 pallet, W02 pallet and W03 pallet for handling this error processing if a description of error processing is included in said existing program.

Claim 10 (Previously Presented): A program reproducing method for reproducing an existing program, which has been created by a method other than a LYEE development method, as a new program having a structure in accordance with the LYEE development method while maintaining functions of said existing program, comprising steps of:

extracting at least one definitive, which is controlled by an existing program, from the existing program;

preparing a plurality of program components for operating a base structure consisting of a set of W02, W04 and W03 pallets based on the at least one extracted definitive;

extracting at least one word used in said existing program from said existing program;

identifying the at least one definitive corresponding to the at least one word and input/output categories of the at least one word;

assigning the at least one word to at least one pallet of the W02, W04 and W03 pallets depending on the at least one definitive corresponding to the at least one extracted word and the input/output categories of the at least one word; and

converting a statement containing at least one word of the existing program to at least one program component of a plurality of program components having a structure in compliance with the LYEE development method in at least one pallet related to the statement through the word.

Claim 11 (Previously Presented): The program reproducing method according to claim 10, wherein assigning the at least one word to at least one pallet comprises:

assigning an extracted word related to a definitive used in input processing to at least the W02 pallet; and

assigning an extracted word related to a definitive used in output processing to at least the W04 pallet.

Claim 12 (Previously Presented): The program reproducing method according to claim 10 further comprising:

preparing separately, a plurality of program components configured to operate a base structure configured to assign an extracted word if the word does not belong to at least one extracted definitive.

Claim 13 (Previously Presented): The program reproducing method according to claim 10 further comprising:

preparing separately, a plurality of program components configured to operate a base structure configured to handle error processing if a description of error processing is included in said existing program.

Claim 14 (Previously Presented): The program reproducing method according to claim 10 further comprising:

converting a statement of an existing program configured to generate data stored in a field represented by a word to a program component for data generation.

Claim 15 (Previously Presented): The program reproducing method according to claim 10, further comprising:

ascertaining a relationship between at least two pallets when at least two words used in a statement of the existing program are respectively assigned to said at least two pallets;

determining the relationship does not satisfy a predetermined sequence;

decomposing the statement into a plurality of statements;

incorporating a new word in each statement obtained by the decomposing; and

assigning at least one new word configured to satisfy the predetermined sequence to at least one of said two pallets.

Claim 16 (Previously Presented): The program reproducing method according to claim 10, further comprising:

adopting a statement configured to execute physical input/output processing based on a definitive from the existing program as part of a program component configured to control said pallets.

Claim 17 (Previously Presented): The program reproducing method according to claim 10, further comprising:

creating a process route diagram representing the flow of processing of said existing program, from said existing program, using at least one base structure.

Claim 18 (Previously Presented): The program reproducing method according to claim 17, further comprising:

extracting, from said existing program, a conditional statement representing a branch condition at a branch point of a route if at least one of the route is connected to at least two different base structures and the route connected to quit processing is expressed in said process route diagram; and

converting the extracted conditional statement to a program component for route determination included in a plurality of program components of a pallet from which said branch point originates.

Claim 19 (Previously Presented): The program reproducing method according to claim 10, further comprising:

searching for a conditional statement representing at least one of a data input condition and a data output condition based on a description of an existing program;

extracting a conditional statement found by the searching; and

converting the extracted conditional statement to a program component for at least one of an input and output operation from a plurality of program components in a pallet corresponding to the at least one of the data input condition and data output condition.

Claim 20 (Previously Presented): The program reproducing method according to claim 10, further comprising:

searching for a conditional statement representing a decision condition of an equivalent word based on a description of the existing program;

extracting a conditional statement found by the searching; and

converting the extracted conditional statement to a program component of the plurality of program components in a pallet to which the equivalent word has been assigned.

Claim 21 (Previously Presented): A program reproducing apparatus comprising:

first storage means for storing a plurality of program components which construct a LYEE program;

second storage means for storing tense control function information, base structure information, pallet information, definitive information, route information and command information obtained from a process route diagram created based upon an existing program;

third storage means for storing the existing program;

first assignment means for assigning a word used in the existing program stored in the third storage means, to at least one of said W04, W02 and W03 pallets included in a base structure related to a word based upon the tense control function information, base structure information, pallet information and definitive information stored in said second storage means; and

conversion means for converting, based on the route information and command information stored in said second storage means, each statement of the existing program stored in the third storage means to at least one program component of the plurality of program components stored in said first storage means in the at least one of said W04, W02 and W03 pallets to which the word included in the statement has been assigned.

Claim 22 (Previously Presented): The program reproducing apparatus according to claim 21, further comprising:

statement read-in means for reading in a statement of the existing program.

Claim 23 (Previously Presented): The program reproducing apparatus according to claim 22, wherein said first assignment means comprises:

means for assigning a word to at least the W02 pallet if the word used in a statement read in by said read in means is related to a definitive used in input processing; and

means for assigning a word to at least the W04 pallet if the word used in a statement read in is related to a definitive used in output processing.

Claim 24 (Previously Presented): The program reproducing apparatus according to claim 22, further comprising:

means for ascertaining a relationship between at least two pallets when at least two words used in the statement read in by said read in means are respectively assigned to said at least two pallets;

determining means for determining that the relationship does not satisfy a predetermined sequence;

means for decomposing the statement into a plurality of statements;

means for incorporating at least one new word in each statement obtained by means for decomposing; and

second assignment means for assigning at least one new word configured to satisfy the predetermined sequence to at least one of said at least two pallets.

Claim 25 (Previously Presented): The program reproducing apparatus according to claim 22, further comprising:

self-word/given-word identifying means for identifying a word used in a statement read in by said read-in means is at least one of a self word and a given word.



Claim 26 (Previously Presented): The program reproducing apparatus according to claim 21, wherein

said conversion means converts a statement configured to generate data stored in a field represented by a word in the existing program to a program component for data generation when a program component for data generation is stored in said first storage means.

Claim 27 (Previously Presented): The program reproducing apparatus according to claim 21, wherein

said conversion means adopts a statement configured to execute input/output processing with regard to a screen from the existing program as part of a program component configured to control said W04, W02 and W03 pallets when a program component for controlling a set of W04, W02 and W03 pallets has been stored in said first storage means.

Claim 28 (Previously Presented): The program reproducing apparatus according to claim 21 further comprising:

route-branch-condition-command extraction means for extracting, from said existing program based on route information stored in said second storage means, a conditional statement representing a branch condition of a route when a program component for route determination is stored in said first storage means; and

said conversion means converts the extracted conditional statement to a program component for route determination.

Claim 29 (Previously Presented): The program reproducing apparatus according to claim 21, further comprising:

data-input/output-condition-command searching means for searching for a conditional statement representing at least one of a data input condition and a data output condition based on a description of the existing program when program components for at least one of an input operation and an output operation are stored in said first storage means;

extraction means for extracting a conditional statement found by said data-input/output-condition-command searching means; and

said conversion means converts an extracted conditional statement to a program component for at least one of an input and output operation included in a plurality of program components in a pallet corresponding to the at least one of the data input condition and data output condition.

Claim 30 (Previously Presented): The program reproducing apparatus according to claim 21, further comprising:

equivalent-word-decision-condition-command searching means for searching for a conditional statement representing a decision condition of an equivalent word based on a description of the existing program when a program component for data generation is stored in said first storage means;

means for extracting a conditional statement found by said equivalent-word-decision-condition-command searching means; and

said conversion means converts the conditional statement to a program component.

Claim 31 (Currently Amended): A ~~recording~~ computer readable storage medium for ~~recording storing~~ an assignment program for execution on a computer system, which when executed by the computer causes the computer system to control ~~for controlling~~ a program reproducing apparatus for reproducing an existing program, which has been created by a

method other than a LYEE development method, as a new program having a pallet structure in accordance with the LYEE development method while maintaining functions of said existing program, said assignment program comprising:

discriminating a definitive for a word used in a statement of said existing program based on tense control function information, base structure information, pallet information and definitive information obtained from said existing program;

discriminating at least one pallet for said word to be assigned, based on a read statement regarding said word; and

controlling said program reproducing apparatus to assign at least one pallet depending on the definitive and the at least one pallet discriminated.

Claim 32 (Currently Amended): The ~~recording~~ computer readable storage medium according to claim 31, further comprising:

determining a word used in said statement is at least one of a self word and a given word based on the statement in which said word is used; and

furnishing an identifier configured to indicate the word is at least one of a self word and a given word.

Claim 33 (Currently Amended): A ~~recording~~ computer readable storage medium for ~~recording~~ storing a conversion program for execution on a computer system, which when executed by the computer causes the computer system to control ~~for controlling~~ a program reproducing apparatus including a storage unit storing a plurality of program components constructing a LYEE program, said program reproducing apparatus reproducing an existing program, which has been created by a method other than a LYEE development method, as a

new program having a pallet structure in accordance with the LYEE development method while maintaining functions of said existing program;

said existing program furnishes information relating to at least one of a plurality of pallets to which a word is to be assigned the word used in a statement of said existing program;

said conversion program controlling the program reproducing apparatus converts a statement of said existing program to at least one program component of a plurality of program components in a pallet specified by information relating to an assigned pallet appended to the word included in the statement.

Claim 34 (Currently Amended): The computer readable storage medium according to claim 33, wherein said conversion program converts a statement for generating data stored in a field represented by a word to a program component for data generation.

Claim 35 (Currently Amended): The ~~recording~~ computer readable storage medium according to claim 33, wherein said conversion program adopts a statement configured to execute input/output processing with regard to a screen from the existing program as part of a program component configured to control a set of a plurality of pallets.

Claim 36 (Currently Amended): The ~~recording~~ computer readable storage medium according to claim 33, wherein said plurality of program components include a program component for a route decision; and said conversion program further comprises:

extracting a conditional statement representing a branch condition of a route from said existing program based on route information obtained from said existing program; and

converting the extracted conditional statement to a program component for route determination included in a plurality of program components of a pallet from which branching of said route originates.

Claim 37 (Currently Amended): The ~~recording~~ computer readable storage medium according to claim 33, wherein

said plurality of program components include program components for an input operation and for an output operation; and

said conversion program further comprises:

searching the existing program for a conditional statement representing at least one of a data input condition and a data output condition;

extracting a conditional statement found by the searching; and

converting the extracted conditional statement to a program component for at least one of an input and output operation included in a plurality of program components in a pallet in which the at least one the data input condition and data output condition acts.

Claim 38 (Currently Amended): The ~~recording~~ computer readable storage medium according to claim 33, wherein

said plurality of program components include a program component for data generation; and

said conversion program further comprises:

searching the existing program for a conditional statement representing a decision condition of an equivalent word; and

converting the conditional statement to a program component included in a plurality of program components in a pallet to which the equivalent word is assigned.

Claim 39 (Previously Presented): A program reproducing apparatus for reproducing an existing program, which has been created by a method other than the LYEE development method, as a new program having a structure in accordance with the LYEE development method while maintaining functions of said existing program, comprising:

storage means for storing a plurality of program components which construct a LYEE program;

input means for inputting the existing program;

definitive extraction means for extracting at least one definitive from the existing program that has been input;

word/definitive relationship extraction means for extracting a relationship between at least one word and at least one definitive from the existing program that has been input;

input/output category extraction means for extracting an input/output category of a word extracted by said word extraction means for the existing program that has been input;

assignment means for assigning a word extracted by said word extraction means to at least one pallet of a plurality of pallets to which the word is related based upon the relationship between the word and definitive extracted by said word/definitive relationship extraction means and the word input/output category extracted by said input/output category extraction means; and

conversion means for converting each statement of the existing program to at least one program component of a plurality of program components stored in said storage means in at least one pallet of a plurality of pallets to which words contained in the statements or commands have been assigned.